**Alka-Seltzer Rockets**

**Materials**

Film Canister (the type that the lid seals from the inside)

Water

Plastic cup

Alka-Seltzer Tablet (4 tablets per group)

Ruler or measuring tape

1 m by 1m area on the floor taped out and designated as the launch pad. This area needs to be clear of everything.

**Procedure**

**Part 1**

1. Half fill a film canister with water.

2. Add a quarter of one Alka-Seltzer tablet and quickly cap the canister.

3. Quickly turn canister upside and place on the launch pad

4. Back out of launch pad by at least a meter and watch.

5. After the film canister rocket has launched and returned to Earth, collect both pieces and clean up any mess in the launch pad area.

**Part 2**

1. Determine a method for measuring the maximum height your film canister rocket will reach.

2. Write out this procedure.

3. Have this procedure approved by your teacher.

**Part 3**

1. Your teacher will give you three Alka-Seltzer tablets and a cup of water. Your task is to determine what combination of fuel, in terms of amount and composition, will produce the maximum height of your rocket.

2. Equally important in determining the right combination is the collection of data to support your claim. Create a procedure and have it approved by your teacher that will allow you to collect sufficient information to support the answer to this task.

**Reflection**

Summarize how you determined the best combination of materials to achieve the maximum height of your film canister rocket.